

ABSTRACT

The present invention relates to a labor reduction type agricultural chemical spraying system having an automatic hose winding and unwinding apparatus by which one worker is capable of spraying agricultural chemicals in such a manner that a hose is automatically wound and unwound from a reel based on a remotely controlled motor. The labor reduction type agricultural chemical spraying system having an automatic hose winding and unwinding apparatus comprises a frame in which a motored sprayer connected with an engine is installed; a reel rotatably installed in the frame wherein a hose is wound onto the reel; a first driving motor driven in both directions for rotating the reel in normal and reverse directions in accordance with a remote control signal; a rotary shaft rotating by a driving force from the rotary shaft of the reel and reciprocating a movable piece engaged to an upper side in the left and right directions with respect to the reel; a second driving motor installed on the movable piece in cooperation with the first driving motor and driven in the normal and reverse directions in accordance with a remote control signal; and a pair of rollers that are installed in the movable piece and are rotatably connected with the second driving motor and tension an outer surface of the hose, and unwind the hose from the reel.